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DATE MAILED: 10/05/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,923	11/13/2003	Takayuki Iwasa	KYO.P0021	9874
75	590 10/05/2004		EXAM	INER
RENNER, KENNER, GREIVE, BOBAK,			TON, MINH TOAN T	
TAYLOR & W	EBER			
Fourth Floor			ART UNIT	PAPER NUMBER
First National Tower			2871	
Akron, OH 44	4308-1456			

Please find below and/or attached an Office communication concerning this application or proceeding.

			—— <i>U</i> D
	Application No.	Applicant(s)	(),
	10/712,923	IWASA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Toan Ton	2871	
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet w	ith the correspondence address -	
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comr - If the period for reply specified above, the maximum st - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. i of 37 CFR 1.136(a). In no event, however, may a nunication. iii) days, a reply within the statutory minimum of thin atutory period will apply and will expire SIX (6) MOI will, by statute, cause the application to become Al	reply be timely filed ny (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	ation,
Status			
1) Responsive to communication(s) file	ed on		
,	2b)⊠ This action is non-final.		
3) Since this application is in condition closed in accordance with the practi	for allowance except for formal mat	•	s is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-7</u> is/are pending in the appear 4a) Of the above claim(s) is/as 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-7</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restrict	re withdrawn from consideration.	į.	r
Application Papers			
9)☐ The specification is objected to by th	e Examiner.		
10) The drawing(s) filed on is/are	: a)☐ accepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any obje	ction to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including 11) The oath or declaration is objected to	•	• • • •	
Priority under 35 U.S.C. § 119			
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in A of the priority documents have beer onal Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (F 		Summary (PTO-413) (s)/Mail Date	
Notice of Dransperson's Patent Drawing Review (F3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date		Informal Patent Application (PTO-152)	

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Art Unit: 2871

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art (APA hereinafter, Figure 1) in view of Niboshi et al (US 6198215).

APA discloses a reflective LCD device comprising all claimed limitations except the antireflection layer having particular characteristics such as a double layer of a metallic film and a silicon oxynitride film.

Niboshi discloses antireflective film comprising a metallic film and a silicon oxynitride film, wherein the refractive index ranges from 1.8 to 3.2 (meeting/overlapping Applicant's range of 1.7-1.9) and 40-60 nm (meeting Applicant's range of 400- 600 Angstroms). Niboshi discloses that such antireflective film achieves advantages such as the intensity of reflected light can be sufficiently suppressed. Therefore, it would have been obvious to one of ordinary skill in the art to employ the antireflective film comprising particular characteristics such as a metallic film and a silicon oxynitride film, the refractive index ranges from 1.8 to 3.2 (meeting/overlapping Applicant's range of 1.7-1.9) and 40-60 nm (meeting Applicant's range of 400- 600 Angstroms), for achieving advantages such as the intensity of reflected light can be sufficiently suppressed.

Niboshi discloses several metallic materials such as Mo, Al, Ta, Ni (Ti would appear to be at least functionally-equivalent to one of these metallic materials).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2004

TOANTON
PRIMARY EXAMINER